

Fig. 1

Sample No.	Metal Powder	Kind of Powder	Tap Density (g/cc)	Mean Particle Size (μm)	Specific Surface Area (m^2/g)	Sediment Density (%)	Name of Product
1	Ag/Pd	Pulverized Powder	0.9	1.0	1.39	32.3	09-630 manufactured by Technic, Inc.
2	Ag	Pulverized Powder	0.5	0.6	2.70	27.8	Silpowder 188 manufactured by Technic, Inc.
3	Ag	Pulverized Powder	1.0	0.7	6.66	22.2	Silpowder 416 manufactured by Technic, Inc.
4	Ag	Pulverized Powder	2.4	10.0	0.92	41.7	Silflake 556 manufactured by Technic, Inc.
5	Ag	Chemically Synthesized Powder (Spherical Powder)	3.2	1.0	0.90	62.5	Silpowder 335 manufactured by Technic, Inc.
6	Ag	Chemically Synthesized Powder (Spherical Powder)	3.8	0.8	1.21	62.5	Silsphare 517 manufactured by Technic, Inc.
7	Ag	Chemically Synthesized Powder (Spherical Powder)	4.3	0.65	1.97	62.5	SPQ03J manufactured by Mitsui Metal Co.
8	Ag	Chemically Synthesized Powder (Spherical Powder)	4.43	1.2	1.10	55.6	SPQ05J manufactured by Mitsui Metal Co.
9	Ag	Chemically Synthesized Powder (Spherical Powder)	4.55	1.5	0.50	55.6	Ag128 manufactured by Shoei Chemical, Inc.

Fig. 2

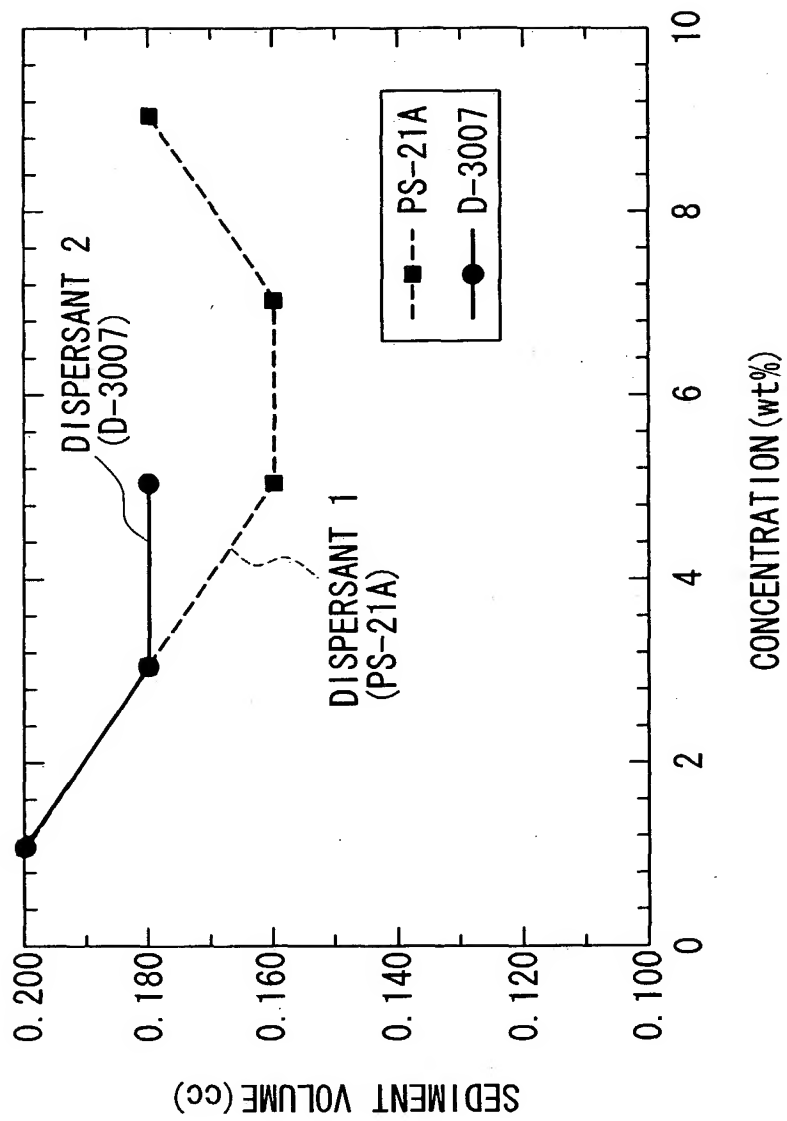


Fig. 3

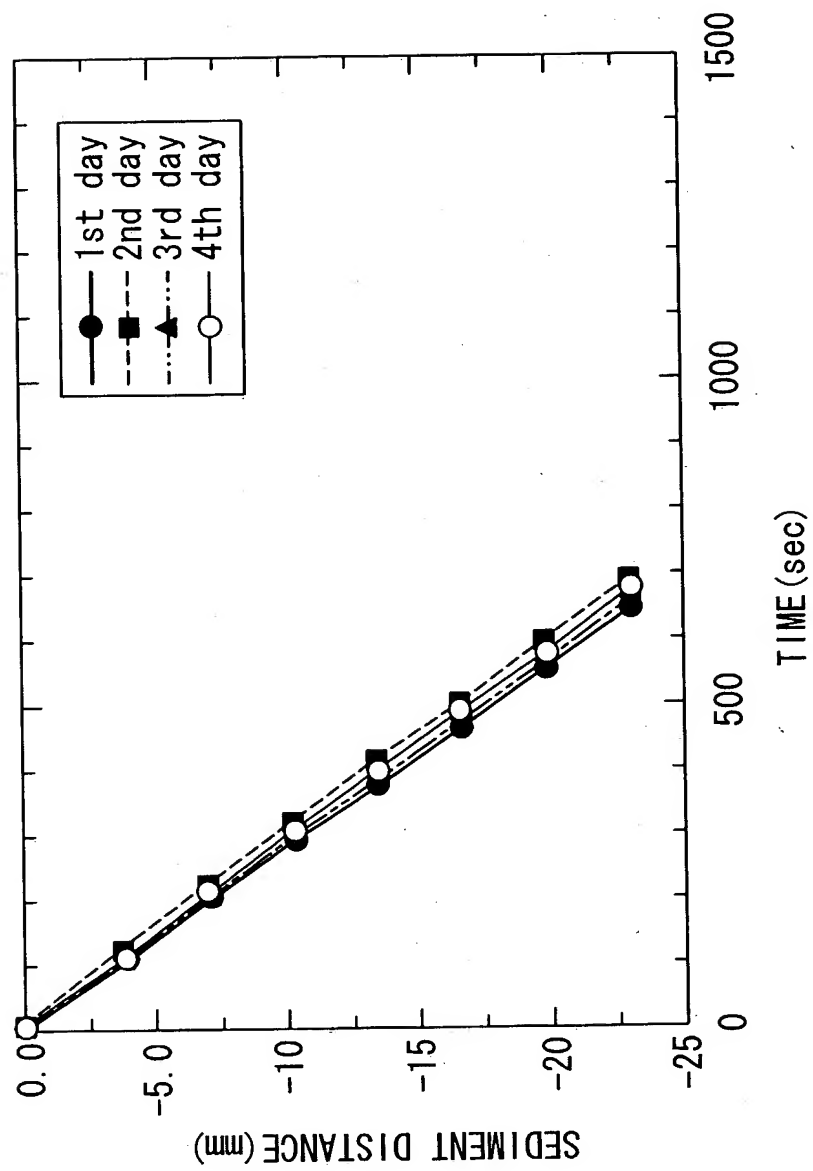


Fig. 4

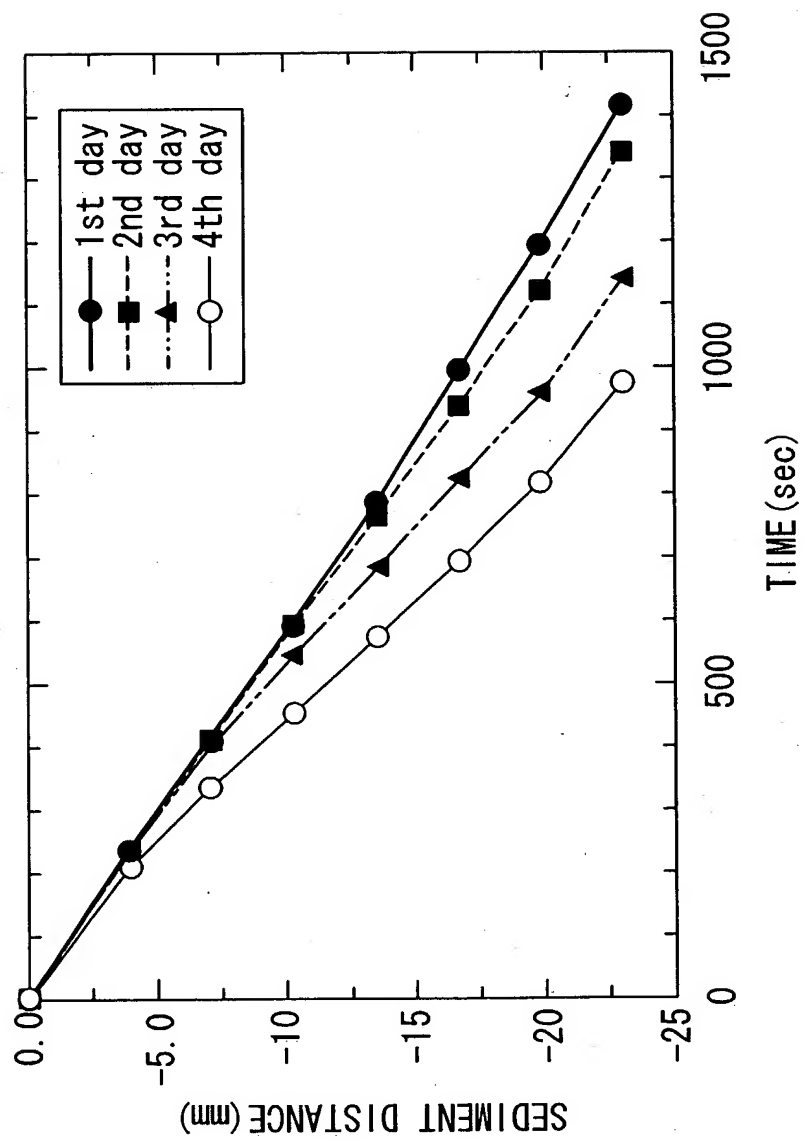


Fig. 5

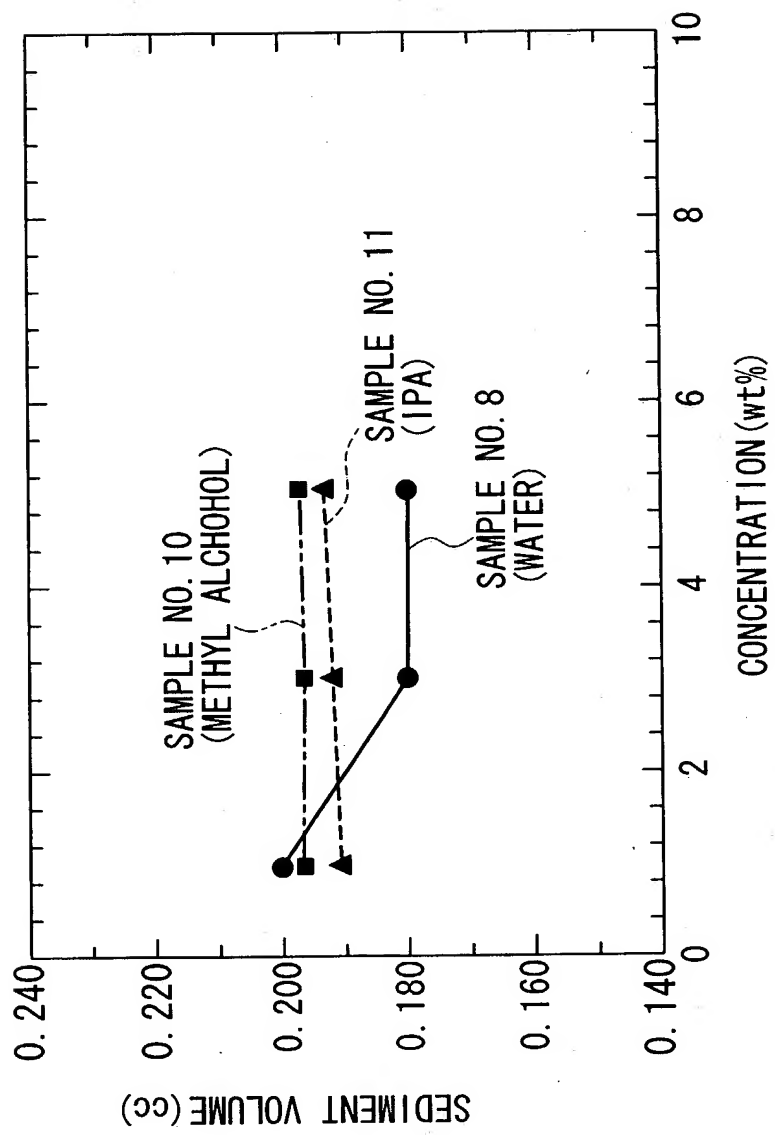


Fig. 6A

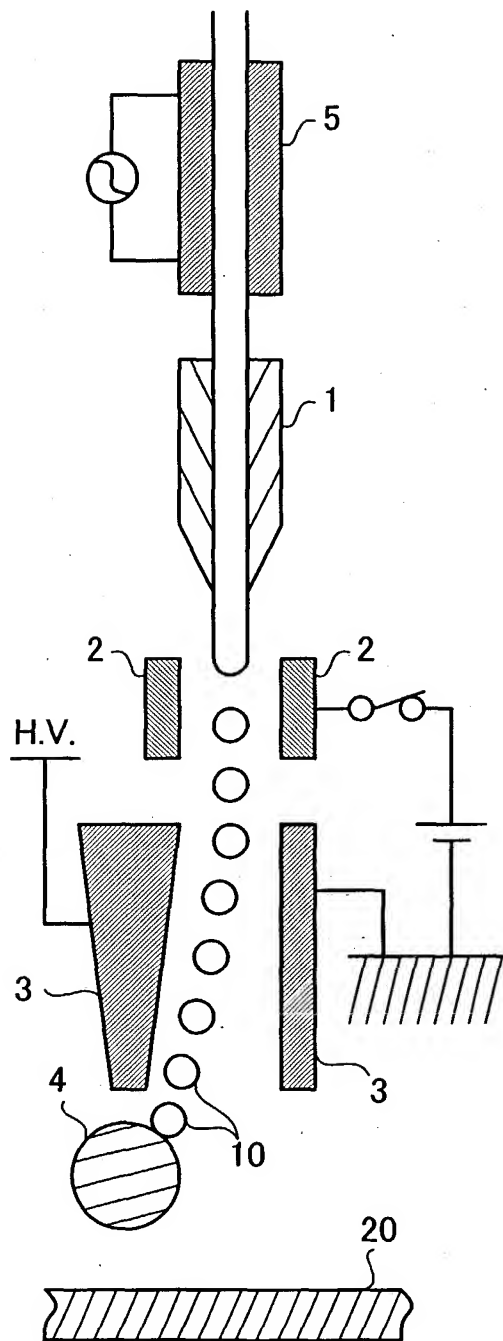


Fig. 6B

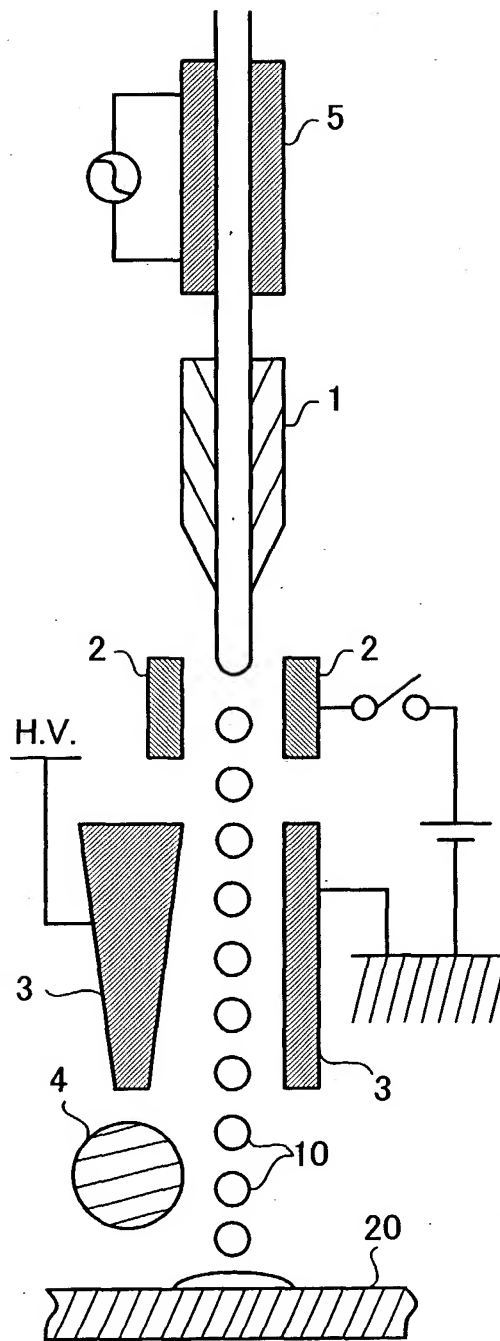


Fig. 7A

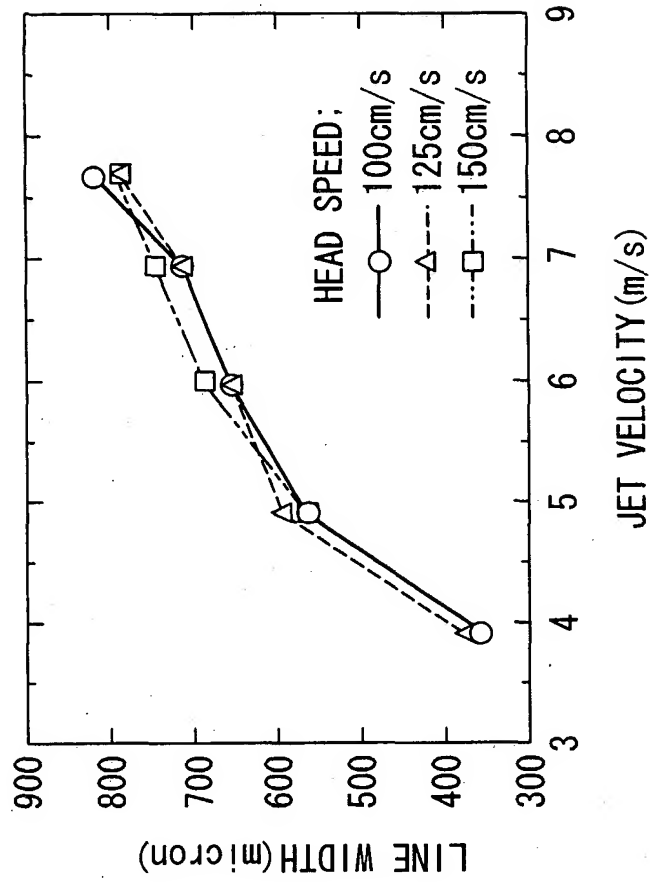


Fig. 7B

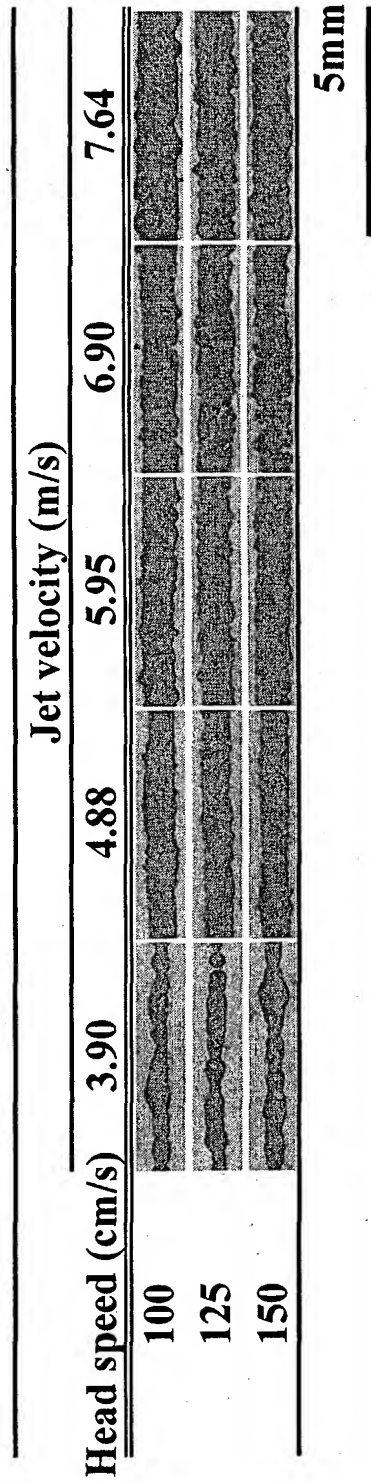


Fig. 8A

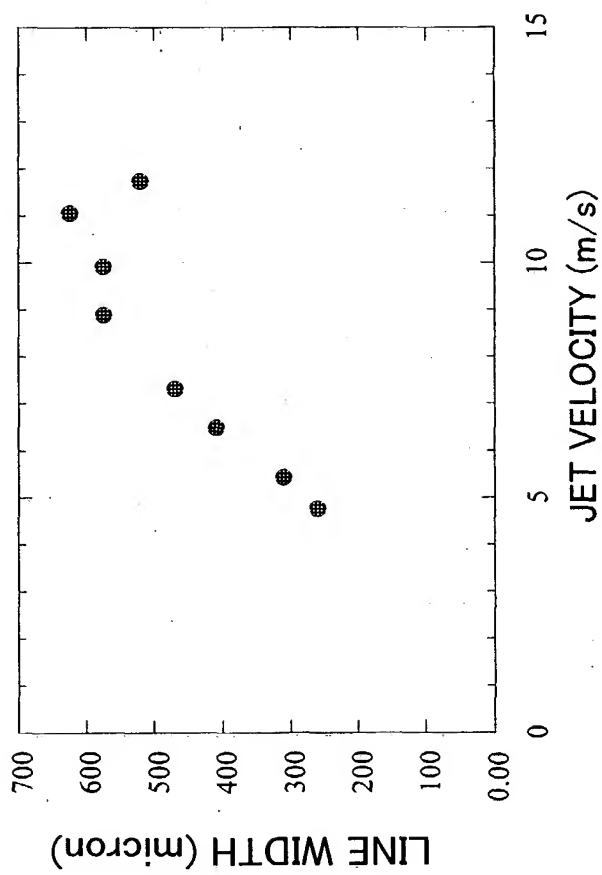


Fig. 8B

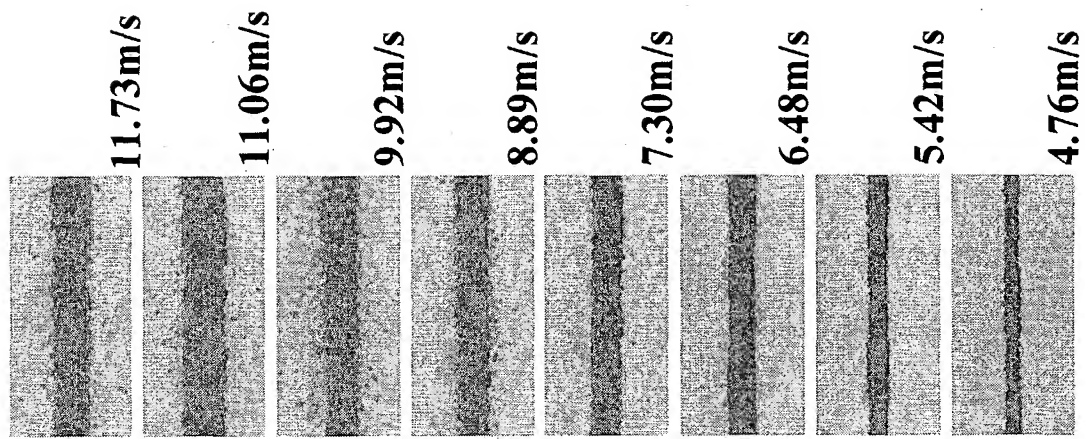
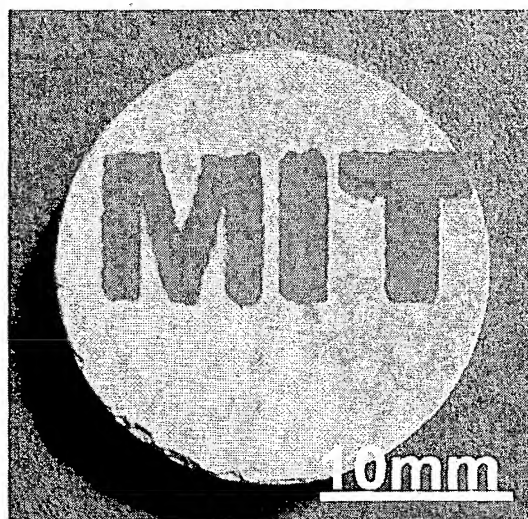


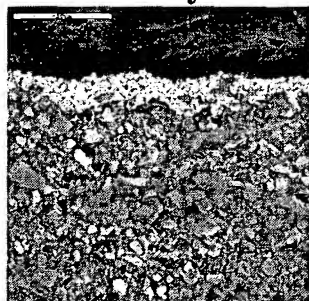
Fig. 9A



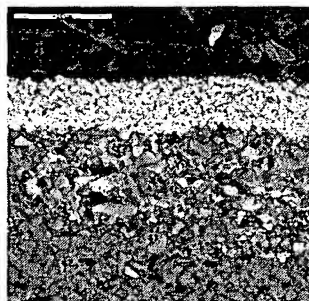
Electrode pattern

Fig. 9B

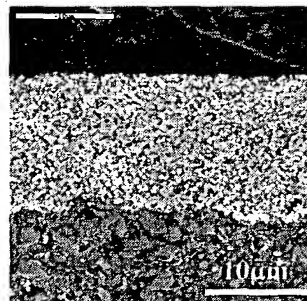
Green body



1 layer

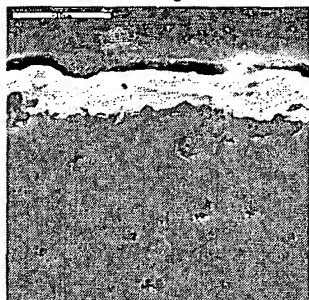


3 layers

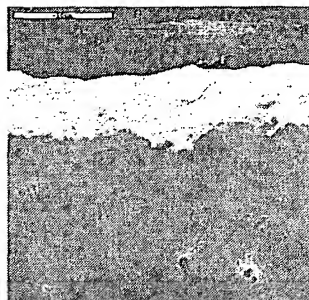


10 layers

Fired body



1 layer



3 layers



10 layers

Cross Sections

Fig. 10A

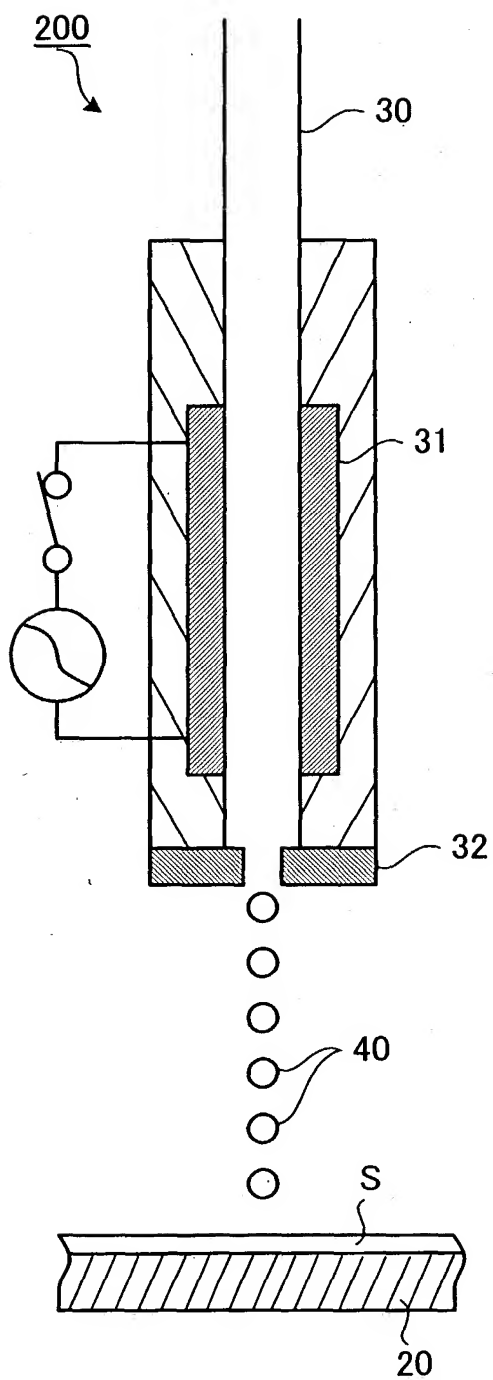
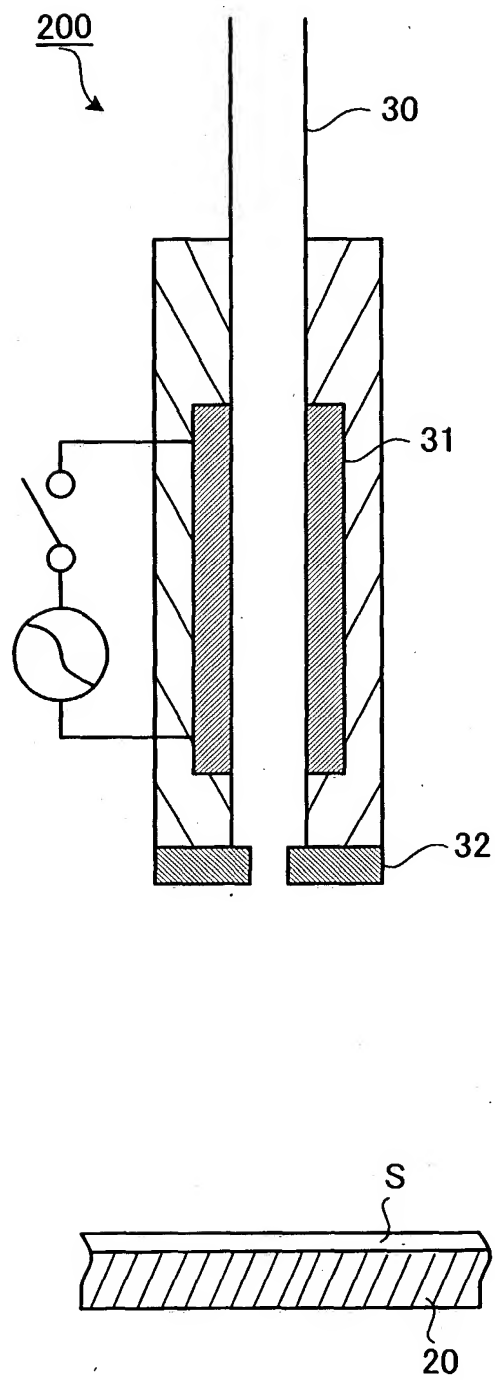


Fig. 10B



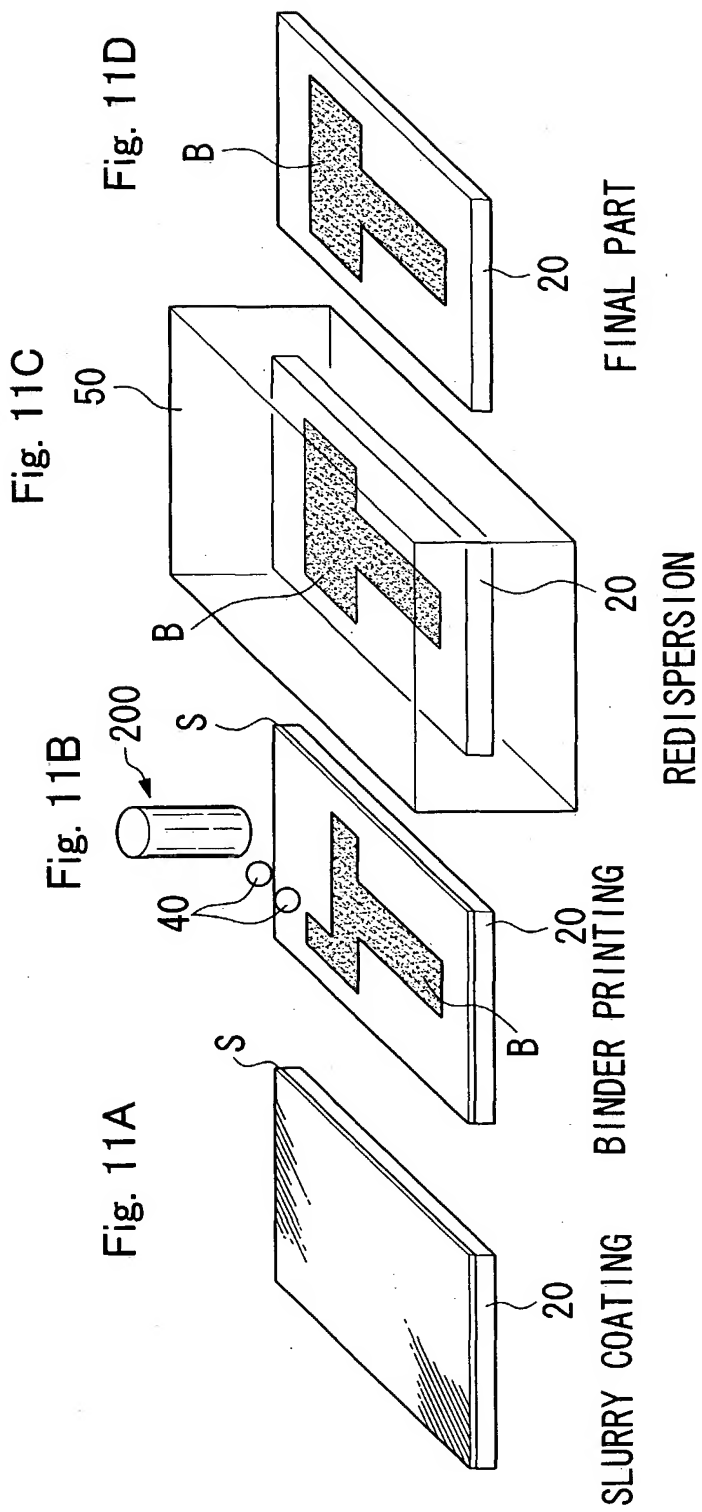
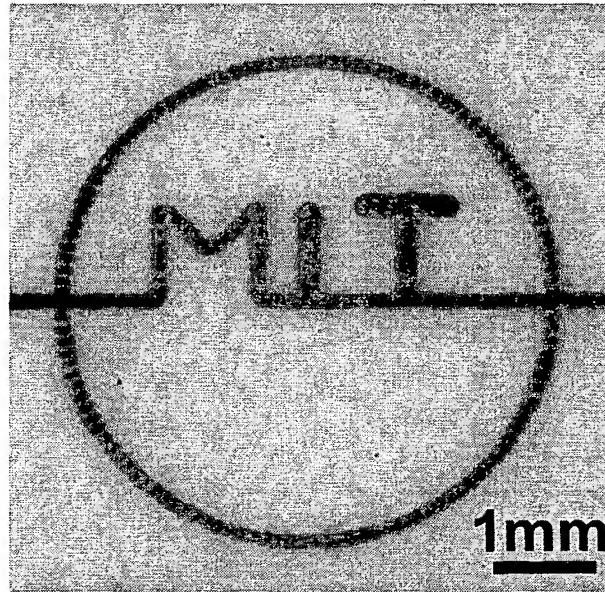
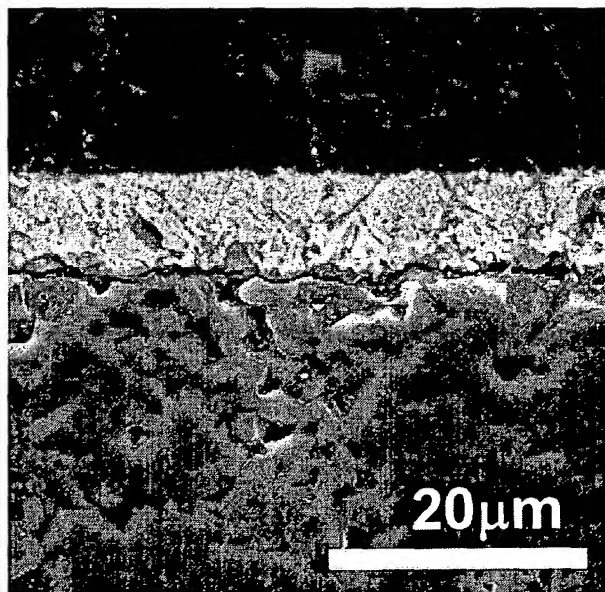


Fig. 12A



Electrode pattern

Fig. 12B



Cross section of silver